user manual

only and may differ from actual product appearance. Product design and pecifications may be changed without notice. Important Warranty Information Regarding **Television Format Viewing**

Figures and illustrations in this User Manual are provided for reference

See the warranty card for more information on warranty

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images or screen, such as the dark sidebars on non- expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

 SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement. the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center

To add channels to the Added Channels list, follow these steps: 1. Select one or more channels in the All Channels list using the

- ▲/▼ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- appears. 3. Select Add in the Tools menu, and then press the ENTER button.
- S All deleted channels will be shown on the All Channels lis You add channels back to the Added Channels list on the All Channels list.
- Nagray-colored channel indicates the channel has been deleted from the Added Channels list.
- Solution The Add menu option only appears for deleted channels Add to Favorite/Delete from Favorite: Lets you add channels and delete channels from your Favorites list

To add channels to the Favorites list, follow these steps

- ▲/▼ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- appears. 3. Select Add to Favorite in the Tools menu, and then press the ENTER 🗗 button
- To delete channels from the Favorites list, follow these steps:
- 1. Select one or more channels in the Favorite Channels list using the \blacktriangle/∇ buttons and the Yellow Select button on your remote.
- 2. Press the TOOLS button on your remote. The Tools menu appears.
- 3. Select Delete from Favorite in the Tools menu, and then press the ENTER 🗗 button
- **Timer Viewing**: You can schedule a channel to be displayed automatically at a set time, even when you are watching another Change Info: Change the scheduling information for a show or channel. You must set the current time first in the Time > Clock function to use Time Viewing
- To schedule a channel, follow these steps:
- 1. Select a channel in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remote. 2. Press the TOOLS button on your remote. The Tools menu
- appears.
- 3. Select **Time Viewing** in the Tools menu, and then press the ENTER I → button. The Time Viewing screen appears.



4 Use the **∢/** buttons to move from entry field to entry field and the \blacktriangle/\lor buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.

ransportation to and from the Service Center is the responsibility o the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

6000 6050

- For the location of a SAMSUNG Authorized Service Center, please call toll-free: - In the United States : 1-800-SAMSUNG (1-800-726-7864)
- In Canada : 1-800-SAMSUNG

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, TV shows or movies in panorama or 4:3 format, stock or news scroll bars, etc.) on the screen. The constant display of still pictures can cause ghosting o image burn-in (image retention) on the LED screen, which will affect image quality. To reduce the risk of this effect, please follow the mendations below:

- Avoid displaying the same TV channel for long periods Always try to display any image in full screen mode. Use the TV's Picture Options menu to select the optimal screen size.
- · Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the minimum may speed up the burn-in process.
- · Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for details

Contact SAMSUNG WORLDWIDE If you have any guestions or comments relating to Samsung products, ease contact the SAMSUNG customer care center.

Country	CANADA	U.S.A.	
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112	
Customer Care Center 🖀	1-800-SAMSUNG(726-7864)		
Web Site	www.samsung.com		

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- If you select Everyday or Every Week, the date you select in the Date field becomes the start date for your scheduled viewing. For Everyday, the TV will turn on every day, at the time you selected, starting from that date. For Everyweek, the TV will turn on every week, on the same day of the week as the start date you selected, at the time you selected, from that day on, If you select Once, the TV will turn on once, on the date and time you selected.
- 5. Press the ENTER 🕞 button on your remote when done Only Added Channels can be scheduled.
- \circledast Scheduled programs and channels are displayed in the Programmed List.
- \circledast When you select a digital channel, press the \blacktriangleright button to view the digital program list. If you highlight a program in the list, and then press the ENTER (Schedule) button,
- you set Timer Viewing for that program directly. 1. Select one or more channels in the All Channels list using the Select All: Select all the channels in the displayed channel list. Deselect All: Deselect all the selected displayed channels. S You can only select **Deselect All** when one or more
 - channels are selected. Channel Name Edit: Analog channels only. Lets you assign a name of up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a
 - Auto Program: See Auto Program under Memorizing Channels.
 - Programmed List (on the Channel List Screen) The **Programmed** list displays the channels and programs you have scheduled for viewing using the Time Viewing function. You can view, modify, or delete a show you have scheduled using the functions on the **Programmed** List screen Tools menu.

Programmed List Screen Tools Menu

- channel vou have scheduled.
- To change the information, follow these steps
- 1. Select the **Programmed** List icon on the left side of the Channel List screen, and then press the ENTER I button. 2. On the **Programmed** List screen, select the show or channel entry you want to change, and then press the TOOLS button.
- The Tools Menu appears. 3. Select **Change Info**, and then press the ENTER + button. The Time Viewing screen appears.
- 4 Use the **◄/**► buttons to move from entry field to entry field and the \blacktriangle/∇ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
- 5. Press the ENTER 🕑 button when done. Cancel Schedules: Cancel a show or channel you have scheduled.
- To cancel a scheduled show or channel, follow these steps:
- 1. Select the **Programmed** List icon on the left side of the Channel List screen, and then press the ENTER I button. 2. On the **Programmed** List screen, select the show or channel entry you want to cancel, and then press the TOOLS button.
- The Tools Menu appears. 3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears.
- 4. Select **OK**, and then press the **ENTER** I button.

The On Screen Menus

Fools menus. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbol (1) in the lower right side of the screen indicates that a Tools menu 📕 Color Space (Auto / Native): Auto automatically matches the

Your TV has two kinds of menus, the Main menu and the various

Advanced Settings

natural

Available in Standard and Movie mode only.

changes to Gamma and White Balance.

precise picture with more precise controls.

color range of the video source.

green, blue) darkness

m light, the screen dims.

mode is set to Dynamic.

top, and bottom are cut off.

nd bottom are cut off.

fits the entire screen.

the TVs 16:9 mode most of the time.

borders on the right and left of the picture.

is not covered by the warranty.

by Input Source are listed below:

To set the clock, follow these steps

1. Select Setup >Time > Clock.

ENTER 🕑 again.

digital channel.

If you selected Auto:

press ENTER 🛃.

If you selected Manual:

60, 90, 120, 150 and 180 minutes).

Timer 1 / Timer 2 / Timer 3

■ Volume: Set the desired loudness

the USB device:

- 6 -

device lower than USB 2.0.

and the type or name of the device.

To cancel the Sleep Timer, select Off

Turns the TV on and off automatically at times and days you

select. You can set three different on/off timer settings.

■ On Time / Off Time: Set the hour, minute, am/pm, and

Sleep Timer TOOLS

Activate.

(1080i / 1080p) HD signals.

Picture Options

redder (warmer)

Available in **Standard** mode only.

Gamma: Adjusts the primary color intensity.

blue) brightness.

screen contrast

look darker.

Compared to previous models, new Samsung TVs offer a more

When your TV is connected to a PC, you can only make

range of colors available to create pictures to the color range of

the video source. Native provides a color range wider than the

White Balance: Adjusts the color temperature of the picture so

pink or slightly yellow) and the overall color of the picture looks

R-Offset / G-Offset / B-Offset: Adjusts each color's (red.

Reset: Resets the White Balance to it's default settings.

Dvnamic Contrast (Off / Low / Medium / High): Adjusts the

Black Tone (Off / Dark / Darker / Darkest): Selects the black

Motion Lighting (Off / On): When on, the TV automatically

When the TV is connected to a PC, you can only make

changes to the Color Tone, Size and HDMI Black Level.

the picture bluer (cooler). Warm 1 and Warm 2 make the picture

Color Tone (Cool / Standard / Warm1 / Warm2): Cool makes

S Warm1 and Warm2 are deactivated when the picture

Size: Set the size and aspect ratio of the picture on the screer

Your cable box or satellite receiver may have its own set of

16:9: Sets the picture to the 16:9 wide screen format.

screen sizes as well. However, we highly recommend you use

Zoom1: Provides moderate magnification of the picture. Sides,

Zoom2: Provides larger magnification of the picture. Sides, top,

Wide Fit: Enlarges the aspect ratio of the picture so the picture

4:3: Sets the picture to the old, 4:3 format and puts black or gray

Traces of borders displayed on the left, right and center of

the screen may cause image retention (screen burn) which

Do not watch your TV in the 4:3 format for a long time.

Screen Fit: Displays the full image without any cut-off when

vour TV is inputting HDMI (720p / 1080i / 1080p) or Component

HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p

You can adjust and store settings for each external device you have connected to an input on the TV. Picture Sizes available

2. Press ENTER I and select Auto or Manual, and then press

The TV will automatically download the correct time from a

· Select DST (Daylight Savings Time), and then pres

the Clock Mode is set to Auto.

ENTER . Select On if you want to turn the DST

Select Time Zone, and then press the ENTER → button.

Use the ▲/▼ buttons to select your **Time Zone**, and then

adjustment on and off manually. Select Off to turn off the

to DST automatically. Press ENTER 🕑 when done.

The **Clock Set** screen appears. Use the \blacktriangle/\lor buttons to

change the values in each field or use the number buttons to

enter the values directly. Use the **◄/**► buttons to move from

field to field. When done with all the fields, press ENTER

Available only when Clock Mode is set to Manual.

Automatically shuts off the TV after a preset period of time. (30,

Activate/Inactivate fields for the On Time and Off Time. Use the

 \checkmark buttons to move from field to field. Use the \land/\lor buttons

he setting you have chosen, set the Activate/Inactivate field to

to change the values in each field. To activate the timer with

Contents: To select what will be turned on when the timer

setting is activated. You can set the TV to turn on a specific

channel or play back contents such as photo or audio files.

Use the $\triangleleft/\triangleright$ buttons to move to move to the Contents field,

and then press the ENTER 🖼 button. The Contents screen

the \blacktriangle/∇ buttons to change the values in each field.

connected to your TV before you can select USB.

- TV/USB: Select TV or USB. The USB device must be

appears. Use the **◄/**► buttons to move from field to field. Use

- Antenna: Displays the current antenna source, Air or Cable.

- Channel: If you have selected TV, select the desired channel.

The maximum displayed number of files, including sub

folders, in one folder of USB storage device is 2000.

Note that the second se

1. Use the **◄/**► buttons to move to the field under **Music**

or the field under Photo, and then press the ENTER

button. The TV displays a single folder (the Root folder)

- Music/Photo: If you have selected USB, follow these steps to

select a folder containing MP3 (Music) or JPEG (Photo) files on

S DST and Time Zone function are only available when

DST adjustment. Select Auto if you want the TV to adjust

(1920x1080) or 720p (1280x720) resolution.

adjusts the brightness of the screen in response to the

Flesh Tone: Adjusts the amount of red in skin tones

level to adjust the screen depth. Darker settings make blacks

brightness of the room. In bright light, the screen brightens. In

R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green,

that white objects look white (instead of, for example, slightly

is available. The Main menu has seven primary categories:

Picture	 Input
Sound	 Application
Channel	 Support

Setup

- To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote. No. The menu options that appear in the Main menu depend
- on the Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the Channel category, you must first select TV in the Source List.

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (TOOLS) next to an option name indicates the option is also available in one of the Tools menus.

Picture Menu

Mode TOOLS

Select your preferred picture mode

- \circledast When your TV is connected to a PC, you can only select Entertain and Standard.
- Dynamic: Brightens the screen. Suitable for a bright room. Standard: Suitable for a normal normal.
- Movie: Darkens the screen, making it less glary. Suitable for watching movies in a darkened room.
- Entertain: Sharpens the picture. Suitable for games. Solution of the Second Backlight / Contrast / Brightness / Sharpness /

Color / Tint (G/R)

- **Backlight**: Adjusts the brightness of the screen by adjusting the orightness of the individual pixels.
- Contrast: Increases or decreases the contrast between dark and light areas of the picture.
- Brightness: Adjusts the brightness of the screen. Not as effective as Backlight. Sharpness: Sharpens or dulls the edges of objects.
- Color: Adjusts the color saturation. The higher the Color setting. the more intense the color. Low settings remove color and the picture becomes black, white and gray.
- Tint: Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.
- Solution When the TV is connected to a PC, you can only make changes to ight, Contrast, Brightness, and Sharpness.
- **Information:** Display the information for a show or channel you have scheduled. You can also change the schedule Information. 1. Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER - button
- 2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS
- button. The Tools Menu appears. 3. Select Information, and then press the ENTER The Time Viewing Information screen appears.
- 4. Select Change Info and press the ENTER I button to change information, or select Close and press the
- ENTER 🗗 button to close the Information screen. Select All / Deselect All: You can select or deselect all
- channels in the channel list.

Other Channel Menu Functions

Channel Mode (Added Channels/Favorite Channels)

_ets you select the channel list displayed when you press the **CHV** (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the **ACHV** button.

Fine Tune

Analog channels only.

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- Select the channel, and then select **Fine Tune**.
- S Fine tuned channels that have been saved are marked with on the right-hand side of the channel humb in the channel banner.
- To reset fine-tuning, select the channel, select Fine Tune, and then select Reset on the Fine Tune screen.

Setup Menu

Set the menu language

□ Setting the Time

Language

Time

button.

of the TV.

clock again.

Plug & Play

Lets you re-run the Plug & Play initial setup procedure. For instructions, see your Quick Start Guide

🖄 Choose between English, Español, and Français.

Solution The time you set will appear when you press the INFO

Clock: Set the clock so you can use the various timer features

Solution If you disconnect the power cord, you have to set the

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2 4:3
DTV (1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit

Digital Noise Filter (Off / Low / Medium / High / Auto) : If the broadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen.

When the signal is weak, try all the Digital Noise Filter options until the TV displays the best picture. HDMI Black Level (Normal / Low) : For HDMI signals, select

Available only in HDMI mode (RGB signals).

Film Mode (Off / Auto) : Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality. Natiable in ATV, DTV (interlace), AV, COMPONENT (480i /

1080i) and HDMI (480i / 1080i). Auto Motion Plus (Off / Clear / Standard / Smooth / Custom /

Demo): Enhances motion in fast moving scenes. No. The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This displayed frequency is not what the TV is displaying by

using the Auto Motion Plus function. LED Motion Plus (Off / On): Removes drag from fast scenes with a lot of movement to provide a clear picture.

Picture Reset ■ Picture Reset (Reset Picture Mode/Cancel): Resets the picture settings to their factory defaults.

Sound Menu

darker.

Mode TOOLS

Equalizer

speaker

frequencies.

Standard: Selects the normal sound mode.

■ Music: Emphasizes music over voices. Movie: Provides the best sound for movies.

Clear Voice: Emphasizes voices over other sounds Amplify: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.

Available in Standard sound mode only.

■ Balance L/R: Adjusts the balance between the right and left

■ 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth

Reset: Resets the equalizer to its default settings. SRS TruSurround HD (On/Off)

Available in Standard sound mode only.

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content through two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system ncluding internal television speakers. It is fully compatible with a multichannel formats.

2. Press the ENTER 🖼 button. A list of folders on the device Locking/Blocking Programs or Movies appears.

If there are no folders on your device, press the Yellow select button to select the Root folder, and then press the RETURN button. The Timer screen e-appears

3. Use the \blacktriangle/ \lor buttons to highlight a folder that contains music or photos, and then press the Yellow select button to select the folder

4. Press the RETURN button. The Timer screen re-appears. Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can select the days you want to activate the timer by using the **◄/**► buttons to highlight he day, and then pressing the ENTER 🚭 button. To unselect a day, highlight it, and then press the ENTER I button.

When you finished making all your selections on the Timer screen press either the ENTER 🕑 or RETURN button.

Other Features

Program Rating Lock

children.

The Program Rating Lock feature lets you block programs you've determined are inappropriate for your children based on he program's ratings. To access the Program Rating Lock feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also

enter the same PIN. Sector Program Rating Lock is not available in HDMI or

Component mode.

S The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the Change PIN function.

How It Works When you access the Program Rating Lock Menu functions for the first time, the PIN input screen appears. Enter 0-0-0. The PIN creen closes and the Program Rating Lock Menu appears. Every Caption time you access the Program Rating Lock functions, the PIN screen will appear and you must enter a PIN.

When the Rating Lock screen appears, select Program Rating Lock, and then press ENTER . Select On, and then press the ENTER 🖃 key again. Depending on what type of programs or movies you want to block, select one of the options on the screen and then press the ENTER 🕑 button. The options are listed below

TV Parental Guidelines: You can block TV programs based on their ratings. This function allows you to control what your children are watching. ■ MPAA Bating: You can block movies based on their MPAA

ratings. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or quardians with advanced information on which films are appropriate for

Canadian English: You can block TV programs based on their Anglophone Canadian ratings. Canadian French: You can block TV programs based on their

nch Canadian ratings.

Downloadable U.S. Rating: Parental restriction information can be used while watching DTV channels.

Preferred Language

Digital channels only

Digital-TV broadcasts can transmit many audio tracks

simultaneously (for example, simultaneous translations of a program into foreign languages). \circledast You can only select a language from among the ones being

broadcast. Multi-Track Sound (MTS)

Analog channels only.

- Mono: Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo: Select for channels that are broadcasting in stereo. the black level to adjust the screen depth. Low make blacks look **SAP**: Select to listen to the Separate Audio Program, which is
 - usually a foreign-language translation. Depending on the program being broadcast, you can listen to Mono, Stereo or SAP.
 - **Auto Volume**
 - Because each station has its own broadcasting conditions, the

volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

SPDIF Output

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater

Audio Format (PCM/Dolby Digital): You can select the Digital Audio output (SPDIF) format. The available Digital Audio output

- format may differ depending on the input source. By connecting the TV to a receiver or home theater with Dolby Digital and 5.1ch speakers and selecting Dolby Digital, you can maximize your interactive 3D sound
- Audio Delay: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver. When you select Audio Delay, a slider appears. Use the left and right arrow buttons to adjust the slider. Press ENTER 🕑 when done (0ms ~ 250ms).

Speaker Settings

Speaker Select (External Speaker / TV Speaker) If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers

- and the speakers attached to your audio receiver. If this occurs, set the TV to External Speaker. 🗞 When you set Speaker Select to External Speaker, the V's speakers are turned off. You will hear sound throug the external speakers only. When you set Speaker Select to **TV Speaker** both the TV's speakers and the external
- speakers are on. You will hear sound through both. Solution When Speaker Select is set to External Speaker, the VOLUME and MUTE buttons will not operate and the sound settings will be limited.
- If there is no video signal, both the TV's speakers and the external speakers will be mute.

Sound Reset

Reset All: Resets all sound settings to the factory defaults.

You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed across the top: ALL: Lock all / ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog.

To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the

RETURN button on your remote. Change PIN: The Change PIN screen will appear. Choose any digits for your PIN and enter them in Enter New PIN fields. Re-enter the same 4 digits in Confirm New PIN fields. When the Change PIN screen disappears, press the OK button. The TV

s memorized your new PIN. 🔊 If you forget the PIN, press the remote-control buttons in

the following sequence, which resets the pin to "0-0-0-0" POWER (off) \rightarrow MUTE \rightarrow 8 \rightarrow 2 \rightarrow 4 \rightarrow POWER (on)

Game Mode (On/Off)

When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function. Precautions and limitations for game mode:

- Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup menu. • If you display the TV menu in Game Mode, the screen shakes
- $\circledast\,$ Game Mode is not available when the input source is set to
- After connecting the game console, set Game Mode to On may notice slightly reduced picture quality
- (On-Screen Text Dialogue)
- **Caption**: You can switch the caption function on or off. If captions are not available, they will not be displayed on the
- Solution The Caption feature does not work in Component or HDMI mode.

Caption Mode: You can select the desired caption mode. Default / CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption function operates in either analog TV channel

node or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.) Default / Service1~Service6 / CC1~CC4 / Text1~Text4:

(Digital channels only) The Digital Captions function works with digital channels. Service1~6 may not be available in digital caption mode

depending on the broadcast.

Digital Caption Options: (Digital channels only) Size: Options include Default, Small, Standard and Large. The default is Standard

Font Style: Options include Default and Styles 0 to 7. The default is Style 0. Foreground Color: Options include Default. White. Black. Red.

Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.

Channel Menu

Memorizing Channels

When you first set up your TV using Plug & Play, the TV memorized the channels that were available over the air or through your cable system and added them to the Channel List. The Antenna and Auto program functions described below let you re-run the channel memorization function without having to re-run the Plug & Play procedure.

Managing Channels

6-1 ¥TV #6

♥ TV #7

♥ TV #

♥ TV #10

🛛 Zoom 🔳 Select 🔎 Tools 🕨 Next Program

icon using the $\underline{\blacktriangle}/\underline{\triangledown}$ buttons to view each list.

Favorite: Shows all favorite channels

function to the channels you selected.

A selected channel

A Favorite channel

A reserved program

A program currently being broadcast.

□ The Channel List Tools Menu TOOLS 1

The Channel List Tools menu contains most of the functions you

can use on the All Channel, Added Channels, and Favorite List

Add / Delete: Delete a channel from or add a channel to the

screens. To view, select a list screen, select a channel, and then

To delete channels from the Added Channels list, follow these steps:

1. Select one or more channels in the Added Channels list using

2. Press the TOOLS button on your remote. The Tools menu

The PIN input screen appears before the setup screen

Software Upgrade can be performed by downloading the latest

Refer to this information when connecting external devices to the

View this information when your TV does not work properly or

when you want to upgrade the software. You can find information

MEDIA.P

regarding our call centers and how to download products and

2. Connect a USB device containing photo, music, and/or movie

3. Press the MEDIA.P button on your remote. The Media Play

les to the USB jack on the back of the TV. A pop up window

Enjoy photos, music and/or movie files saved on a

USB Mass Storage Class (MSC) device.

□ Connecting a USB Device

Using the Media Play Menu

To open Media Play in the Menu, follow these steps:

press the ENTER 🗗 button.

multimedia files.

- 8 -

1. Press the MENU button. Then, press the ▲ or ▼ button to

Solution Media Play might not work properly with unlicensed

Need-to-Know List before using Media Play (USB)

• The file system supports FAT16, FAT32 and NTFS.

port. USB HDD is not supported.

Photos, Settings), and then press the ENTER I button.

select Application on the left, and then press the ENTER

2. Press the ▲ or ▼ button to select Media Play (USB), and then

Certain types of USB Digital camera and audio devices may not be compatible with this TV.

Readers. Devices should be connected directly to the TV's USB

Media Play only supports USB Mass Storage Class (MSC)

devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Carc

mware from samsung.com to a USB memory device

Enter your 4-digit PIN. Change the PIN using the Change

the ▲/▼ buttons and the Yellow Select button on your remote.

3. Select **Delete** in the Tools menu, and then press the ENTER I

Icons

.

Θ

press the TOOLS button.

Added Channels list.

appears.

PIN option.

Software Upgrade

HD Connection Guide

Contact Samsung

Media Play

1. Turn on your TV.

menu appears.

appears

software

Background Color: Options include Default, White, Black, Red. Reset: Reset all settings to the factory defaults.

See your list of Added channels, Favorite channels, or channels

vou've scheduled for viewing. Add or delete Favorite channels, add

or delete channels from the Added Channels list, schedule channels

the All Channels, Added Channels, or Favorite screen, pressing

Channel List Screens icons are listed on the left side. Select an

All Channels: Shows all currently available channels including

Added Channels: Shows all Added channels. These are the

scheduled using Timer Viewing.

Yellow (Select): Move the cursor to a channel. Press the Yellow button to select the channel. A \checkmark mark appears. Repeat to sele additional channels. Then, open the Tools menu and apply a

🛚 🞜 (Tools): Displays the Channel List Tools menu. (The Tools

Meaning

Programmed: Shows all channels and programs currently

Remote control buttons active on the Channel List screen

. Green (Zoom): Enlarges or shrinks a channel number.

hus may differ depending on the situation.

Display Icons Used in the Channel List Screens

channels that appear when you press the CH button.

those you deleted from the Added Channels

or programs for viewing. Watch a channel by selecting the channel

the ▲ / ▼ buttons, and then pressing the ENTER I button.

Channel List

Antenna (Air / Cable)

Before your television can memorize the available channels, you must select your TV's signal source, Air (using an antenna) or Cable Select Menu >Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program function.

Selecting the signal source using the Antenna function also determines the signal source the TV is tuned to. For example if you receive your TV signal over the air, and you select Cable you will see only snow. You must select Air to see a picture.

Auto Program

The Auto Program function memorizes all channels that are available over the air or through your cable system and adds them to the Channel List.

- To start Auto Program, follow these steps: 1. Push MENU $\square \rightarrow$ Channel \rightarrow ENTER \square on your remote. The
- Antenna Source screen appears. 2. On the Antenna Source screen, select the source of your TV signal.

If your TV is connected to an antenna choose Air, and then press ENTER . The TV will automatically start memorizing channels. Cable

If your TV is connected to a cable outlet, choose **Cable**, and then press ENTER . Go to Step 3.

Auto

channels.

Channel

Solid and Flashing.

same color

Solution The **Melody** does not play:

button has been pre-

Auto Protection Time

button to turn on the screen.

brightness can be adjusted manually

surrounding light intensity.

Eco Solution

being received.

Self Diagnosis

on the screen.

Support Menu

follow the directions on the screen.

formation of ghost images on the screen.

Melody

or off

Background Opacity to its default.

on your cable system.

Clear Scrambled Channel

Channel buttons on your remote.

If you choose Auto, and then press ENTER , the TV will automatically select the correct Antenna source. Go to Step 3.

the type of digital and analog cable systems you have: STD, HRC,

🗞 Channel memorization can take up to 45 minutes, depending

list. These are the channels you will see when you use the

or IRC. Most systems are STD (Standard). When done, select

Start and then press ENTER . The TV will start memorizing

Memorized channels are added to the Added Channels

This function filters out scrambled channels after Auto Program is

Newsymbol Press the ENTER I button to stop the Clear Scrambled

Green, Blue, Yellow, Magenta and Cyan. You can change the

Foreground Opacity: This adjusts the opacity of text. Options

include Default, Transparent, Translucent, Solid and Flashing,

Background Opacity: This adjusts the opacity of the caption

background. Options include Default, Transparent, Translucent,

Foreground Color, Background Color, Foreground Opacity and

Digital Caption Options are available only when you can

Solution The Foreground and Background cannot be set to the

Lets you control whether a melody plays when the TV is turned on

When no sound is output from the TV because the MUTE

as been reduced to minimum with the VOL – button

Auto Protection Time (Off / 10 min / 20 min / 40 min / 1 hour):

If the screen remains idle with a still image for a certain period

Energy Saving (Off / Low / Medium / High / Picture Off) :

This adjust the brightness of the TV in order to reduce power

off, but the sound remains on. Press any button except volume

picture settings will automatically adapt to the light in the room.

Solution If you adjust the Backlight, the Eco Sensor will be set to

Min. Backlight: When Eco Sensor is On, the minimum screen

Solution If Eco Sensor is On, the display brightness may change

■ No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets

how quickly the TV switches to standby mode, if no picture is

■ Auto Power Off (Off / On): The TV will be automatically turned

■ Picture Test: Use to check for picture problems. If the problem

Sound Test: Use the built-in melody sound to check for sound

Signal Strength: (Digital channels only) An HD channel's

Adjust your antenna to increase signal strength

appears in the test picture, select Yes and follow the directions

problems. If the problem occurs during the test, select Yes and

reception quality is either perfect or the channels are unavailable.

Disabled when the PC is in power saving mode

off when no user operation is received for 4 hours.

(become slightly darker in most cases) depending on the

Eco Sensor (Off / On): To enhance your power savings; the

ption. If you select Picture Off, the screen is turn

of time you define, the screen saver is activated to prevent the

• When the TV is turned off by the Sleep Timer function.

• When no sound is output from the TV because the volume

select Default and Service1 ~ Service6 in Caption Mode.

background color of the captions. The default is Black.

Return to Default: This option sets each Size, Font Style

completed. This process may take up to 20~30 minutes.

Solution This function is only available in Cable mode

3. On the Cable Type screen, use the </▶/▲/▼ buttons to select

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- A USB device that requires high power (more than 0.5A) may not be supported . Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to
- The maximum supported JPEG resolution is 15360 x 8640 pixels • If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
- The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and nsive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and
- managing billing and settlements • PTP devices are not supported. If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be
- ecognized or may malfunction
- If the TV has no input during the time period set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV. • If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check
- the connection. If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file
- Photos only supports the sequential jpeg format
- The Videos option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and
- some folders may not open. • The maximum displayed number of files, including sub folders, in
- one folder of USB storage device is 2000. • The media may not be playing smoothly when using the device lower than USB 2.0.

Videos

Trouble Powering On



- 1. In the Media Play menu, press the ◄ or ► button to select
- Videos, and then press the ENTER I button 2. Press the $\triangleleft/ \mid / \mid / \mid / \mid / \mid$ buttons to select a video in the file list.
- 3. Press the ENTER 🚭 button or 🕨 (Play) button.
- The file name is displayed on the top of the screen with the
- playing time.
- If video time information is unknown, playing time and the progress bar are not displayed.
- During video playback, you can search using the ◀ and
- buttons.
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

External				
Name	File extension			
MPEG-4 timed text	.ttxt			
SAMI	.smi			
SubRip	.srt			
SubViewer	.sub			
Micro DVD	.sub or .txt			
SubStation Alpha	.ssa			
Advanced SubStation Alpha		.ass		
Internal				
Name	Co	ntainer	Format	
Xsub	AVI		Picture Format	
SubStation Alpha	MKV Text Forma			

Advanced SubStation Alpha MKV Text Format

	SubRip		M	MKV		Text Format	
	MPEG-4 Timed text			MP4		ormat	
Supported Video Formats							
File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec	
*.mp4 MP4	DivX 3.11/4.x/5.1 /6.0	1920x1080	6~30	30Mbps	MP3 /		
	MP4	H264	1920x1080	6~30	30Mbps	ADPCM /	
			AVC	1920x1080	6~30	30Mbps	AAC
		MJPEG	640x480	6~30	10Mbps	1	
*.avi AVI, *.mkv MKV	DivX 3.11/4.x/5.1 /6.0	1920x1080	6~30	30Mbps	MP3 / AC3 /		
		MPEG4 SP / ASP	1920x1080	6~30	30Mbps	LPCM / ADPCM	
			H264	1920x1080	6~30	30Mbps	/ DTS Core
	File Extension *.mp4	MPEG-4 • Supported Vide File File *.mp4 MP4 *.avi AVI,	MPEG-4 Timed text Supported Video Formats File Extension Container Video Codec *.mp4 MP4 DivX 3.11/4.x/5.1 /6.0 *.mp4 MP4 H264 AVC MJPEG *.avi *.mkv AVI, MKV DivX 3.11/4.x/5.1 /6.0	MPEG-4 Timed text MH • Supported Video Formats File Container Video Codec Resolution *.mp4 MP4 DivX .3.11/4.x/5.1 1920x1080 /6.0 H264 1920x1080 /6.0 *.mp4 MP4 H264 1920x1080 /6.0 DivX .3.11/4.x/5.1 1920x1080 /6.0 *.avi *.avi *.avi *.mkv AVI, MKV DivX .3.11/4.x/5.1 1920x1080 /6.0 DivX .3.11/4.x/5.1	MPEG-4 Timed text MP4 • Supported Video Formats • File Extension Container Video Codec Resolution Frame rate(fps) *.mp4 MP4 DivX 3.11/4.v/5.1 1920x1080 6-30 *.mp4 MP4 H264 1920x1080 6-30 MVEG H264 1920x1080 6-30 MVPEG 640x480 6-30 MVFG DivX 3.11/4.v/5.1 1920x1080 6-30 MVFG AV, MKV MPEG4 SP /ASP 1920x1080 6-30	MPEG-4 Timed text MP4 Text File • Supported Video Formats File Container Video Codec Resolution Frame Bit *.mp4 MP4 Text File Text File DivX Text File *.mp4 MP4 Video Codec Resolution Frame Bit *.mp4 MP4 1920x1080 6-30 30Mbps MP4 H264 1920x1080 6-30 30Mbps MP4 MP4 1920x1080 6-30 30Mbps MP4 MP4 1920x1080 6-30 30Mbps MP4 MP4 1920x1080 6-30 30Mbps MP4 DivX 3.11/4.x/5.1 1920x1080 6-30 30Mbps *.avi AVI, MKV MPEG4 SP 1920x1080 6-30 30Mbps	

MJPEG 640x480 6~30 10Mbps

920x1080 6~30

920x1080 6~30

1920x1080 6~30 30Mbps

1920x1080 6~30 30Mbps

6~30

/ 4.x /5.1

MPEG4 SP / ASP

H.264

MPFG2

H. 264 BP

*.dat *.mpg *.mpeg *.vob

*.3gp

3GPP

Other Restrictions

- · Video content will not play, or not play correctly, if there is an error in the content or the containe
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the
- Supported Video Formats table. • If the Index Table erroneous, the Seek (Jump) function is not
- supported
- The menu may take longer to appear if the video's bit rate
- exceeds 10Mbps.

• Video content can not be played if there are many contents in one file.

Video Decoder

Supports up to H.264. Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported MPEG4 SP, ASP

- Below 1280 x 720: 60 frame max
- Above 1280 x 720: 30 frame max
- H.263 is not supported.
- GMC is not support
- Audio Decoder

Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported)

WMA Lossless is not supported. Music



1. In the Media Play menu, press the ◀ or ► button to select

- Music, and then press the ENTER I button 2. Press the $\langle \rangle / A / V$ buttons to select the desired Music in the
- file list. 3. Press the ENTER 🕑 button or 🕨 (Play) button.
- Solution State ▶ button.
- Solution (REW) and ► (FF) buttons do not function during [®] Media Play only displays files with MP3 and PCM file
- extension. Other file extensions are not displayed, even if they are saved on the same USB device.
- If the sound is abnormal when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Category	Operation	Videos	Music	Ph
Title	You can select another video file to play directly.	\checkmark		
Repeat Mode	You can play movie and music files repeatedly.	\checkmark	~	
Picture Size	You can adjust the picture size to your preference.	\checkmark		
Picture Mode	You can adjust the picture setting.	\checkmark		
Auto Motion Plus	You can enhance motion in fast moving scenes.	\checkmark		
Sound Mode	You can adjust the sound setting.	\checkmark	\checkmark	
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	~		
Audio Format	You can select the digital audio output format.	\checkmark		
Audio Language	You can change the audio language if the video has more than one language.	~		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			
Slide Show Speed	You can select the slide show speed during the slide show.			
Background Music	You can set and select background music when watching a Slide Show.			

Zoom

Rotate

Information

Settings

- During the slide show, you can adjust the slide show speed using (◄) (REW) or (➡) (FF) button.
- Media Play can play Music files automatically during a Slide Show if Background Music is set to On.

1. In the Media Play menu, press the or ► button to select

2. Press the $\langle / \rangle / \langle / \rangle$ buttons to select a photo in the file list.

While a photo list is displayed, press the
 (Play) / ENTER

All files in the file list section will be displayed in the slide show

Photos, then press the ENTER 🕞 button.

3. Press the ENTER button or ▶ (Play) button.

button on the remote control to start a slide sh

• During the slide show, files are displayed in order.

- Sou cannot change the Mode in Background Music until the Background Music file has finished loading.
- Supported Photo Formats

Photos

🔊 NOTE

Image	Photo	Resolution		
JPEG	Base-line	15360 x 8704		
	Progressive	1024 x 768		

Other Restrictions

· CMYK, YCCK Color space JPEG are not supported

Playing Multiple Files

- Playing selected video/music/photo files 1. On the File List screen, highlight a file, and then press the Yellow button on your remote
- 2. Repeat Step 1 to select multiple files.
- NOTE

Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).

· Be sure to select the correct input source by pressing the SOURCE button on the remote control

Make sure your connected devices are powered on.

Make sure the coaxial cable is connected securely

Verify the antenna is positioned correctly.

· Some channels may not have caption data

sports and action movies.

the SAMSUNG TV code.

Component.

resolution settings in this manual.

Reboot the connected device by reconnecting the device's power cable.

• Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1.

top-box has a grounding issue. Replace the Component video cables with an HDMI of

Adjust the picture size option on your external device or change the TV to full screen

• Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct .

Run Auto Program to add available channels to the channel list.

• A weak signal can cause picture distortion. This is not a TV problem

Purple/green rolling horizontal bars and | • Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-

· Clean the transmission window located on the top of the remote control

The picture will not display in full screen. + HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.

• Try pointing the remote directly at the TV from 5~6 feet away.

· You cannot select Caption in the TV menu when watching

· Caption must be activated on the external device

This smell is normal and will dissipate in a few days

Remove the stand base from the TV and reassemble it

Check the cable connections and reconnect them.

This is part of the product's design and is not a defect

be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

• The Channel menu is only available when you select the TV source.

· Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV

input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.

go to MENU - Channel - Auto program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC)

• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in

• Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the

Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for

• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to

Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU \rightarrow Setup \rightarrow Plug & Play \rightarrow ENTER \square .

Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible

enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree

- * A \checkmark mark appears to the left of the selected files. · To cancel a selection, press the Yellow button again · To deselect all selected files, press the TOOLS button, select
- Deselect All, and then the ENTER I button 3. Press the TOOLS button, select Play Selected Contents, and then press the ENTER 🖼 button.
- Plaving a video/music/photo folder
- 1. With the folders on your USB device displayed, use the
- Image: A the second 2. Press the TOOLS button, select Play Folder, and then press the ENTER 🗗 button.

the wall.

USB device.

may fall and result in severe personal injury.

- the TV. a soft cloth to prevent scratches.
- License

SISO

DIVX.

and are used under license.

DOLBY DIGITAL PLUS PULSE

dts Open Source License Notice

J License - ICU 1.8.1 and late

- OPYRIGHT AND PERMISSION NOTICE
- HOMI

- Natch these troubleshooting on video at www.samsung.com/spsn.
- Some functions and pictures shown in this manual are available on specific models only.

connectors.

Star Program requirements for Televisions. 🗞 You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com

- 14-

 \rightarrow Support \rightarrow Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

if there is no signal.

Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button

on the TV or remote and the light should blink about 5 times before the TV turns on If you find that you are having trouble powering on your Samsung television, there are a number of things to check it e making a call to the service department. If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. • If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Intallation Guide. Stand Assembly Cannot find a channel • Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) First, perform the **Picture Test** and to see if your TV is displaying the test image properly. Poor Picture Go to MENU - Support - Self Diagnosis - Picture Test If the test image is properly displayed, the poor picture may be caused by the source or signal. If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. The TV image does not look as good as it did in the store Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto Program. Nany HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low • Adjust the Cable/Set top box video output resolution to 1080i or 720p. The picture is distorted: macroblock Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in error, small block, dots, pixelization. sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. Color is wrong or missing. If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen There is poor color or brightness Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) • Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset) There is a dotted line on the edge of • If the picture size is set to **Screen Fit**, change it to 16:9. the screen. Change the cable/satellite box resolution. The picture is black and white. an AV composite input, connect the video cable (vellow) to the Green lack of Component Input 1 on the TV. When changing channels, the picture may take up to 20 minutes) freezes or is distorted or delaved. • Set the output resolution of the cable box to 1080i or 720p. Sound Problems Perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. There is no sound or the sound is too Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. low at maximum volume. The picture is good, but there is no If you are using an external device, check the device's audio output option Ex. you may need to change your cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable sound. Reboot the connected device by reconnecting the device's power cable. The speakers are making an · Check the cable connections. Make sure a video cable is not connected to an audio input. inappropriate noise · For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. · Perform the Sound Test as explained above. No Picture, No Video The TV will not turn o Make sure the AC power cord is securely plugged into the wall outlet and the T\ • Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote.

The cable/set top box remote control does not turn the TV on or off, or adjust the volume A "Mode Not Supported" message If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It There is a plastic smell from the TV. TV Signal Strength is unavailable in the + This function is only available for digital channels received through an Antenna / RF/Coax connection Self Diagnosis Test menu. TV is tilted to the right or left side. The Channel menu is grey out (unavailable) Your settings are lost after 30 minutes or | • If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from every time the TV is turned off. You have intermittent loss of audio or video You see small particles when you look closely at the edge of the frame of the TV. POP (TV's internal banner ad) appears • Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup). If the TV turns on, refer to 'Remote control does not work' below • Ensure the Sleep Timer is set to Off in the Time menu. The TV turns off automatically. 🦠 This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may If your PC is connected to the TV, check your PC power settings Make sure the AC power cord is plugged securely into the wall outlet and the TV. When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes

/ MP / HP HE-AAC MPFG1 920x1080 24/25/30 30Mbps MPFG2 920x1080 24/25/30 30Mbps 920x1080 6~30 30Mbps MPEG4 SP / ASP 920x1080 6~30 30Mbps MP3 H.264 1920x1080 6~30 30Mbps 920x1080 6~30 30Mbps H.264 MP3 Sorenson H.263 1920x1080 6~30 30Mbps

30Mbps

30Mbps

30Mbp

AC3

/ WMA Pro

There is no picture/video

RF (Cable/Antenna) Connection

The TV is not receiving all channels

No Caption on digital channels.

The picture is distorted: macroblock

buzzing noise from the TV speakers with Component cable connection.

The remote control does not work.

error, small block, dots, pixelization

Others

Media Play - Additional Functions ■ Videos/Music/Photos Play Option menus

Using the Setup Menu

reen mode.

en mode

You can zoom into images in ful

You can rotate images in full

DivX® Video On Demand : Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed Sor more information on DivX® VOD, visit "http://vod.divx.

 \checkmark

 \checkmark

✓ \checkmark

■ Information: Select to view information about the connected

Other Information

Installing the Wall Mount Kit The wall mount kit (sold separately) allows you to mount the TV on

For detailed information about installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

Wall Mount Kit Specifications (VESA)

The wall mount kit is not supplied, but sold separately. Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it

Storage and Maintenance

🗞 If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching

👒 The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using



DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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rich bass and clear dialog.

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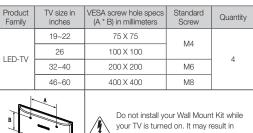
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🔊 NOTE

- · Standard dimensions for wall mount kits are shown in the table When purchasing our wall mount kit, a detailed installation
- nanual and all parts necessary for assembly are provided · Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- . Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury
- Samsung is not liable for these kinds of accidents. Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- · Do not mount the TV at more than a 15 degree tilt. • Always have two people mount the TV on a wall.



Securing the TV to the Wall

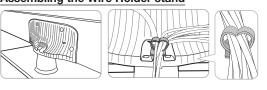
- Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV: doing so may cause the TV to tip over, resulting in serious njuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.
- Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately
- 1. Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.
- 2. Using screws, insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back
- Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.
- Install the TV close to the wall so that it does not fall.
- are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.

Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device sed to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use.

Not Please find a "dia" icon on the rear of the TV. The Kensington slot is beside the "ति" icon. The position and color may differ depending on the model

Assembling the Wire Holder stand



Display Modes (HDMI/DVI Input)

Optimal resolution is 1920 x 1080@60Hz

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution		
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.		
	• Energy saving : Menu \rightarrow Setup \rightarrow Eco Solution \rightarrow Energy Saving \rightarrow Select Settings		
	\bullet Eco Sensor : Menu \rightarrow Setup \rightarrow Eco Solution \rightarrow Eco Sensor \rightarrow Select Settings		
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues.		
	• Self Diagnosis : User Menu \rightarrow Support \rightarrow Self Diagnosis \rightarrow Picture Test		
	• If the test is ok, try making sure ;		
	Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.		
	 Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV. 		
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair.		
	 Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options. 		
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature.		
	First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.		
	• Sleep Timer : User Menu \rightarrow Setup \rightarrow Time \rightarrow Sleep Timer		
	If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.		
	• No Signal Power Off : User Menu \rightarrow Setup \rightarrow Eco Solution \rightarrow No Signal Power		
	• Auto Power Off : User Menu \rightarrow Setup \rightarrow Eco Solution \rightarrow Auto Power Off		

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Specifications Considerations 50°F to 104°F (10°C to 40°C) Operating Temperature Operating Humidity 10% to 80%, non-condensin Storage Temperature -4°F to 113°F (-20°C to 45°C 5% to 95%, non-condensing Storage Humidity UN40EH6000 UN46EH6000 UN55EH6000 UN60EH6000 Model Name UN40EH6050 UN55FH6050 UN60EH6050 UN46FH6050 Display Resolution 1920 x 1080 Screen Size 40" Class 46" Class 55" Class 60" Class (40.0" measured diagonally (45.9" measured diagonally) (54.6" measured diagonally) (60.0" measured diagonally (Diagonal) Sound Output 10W x 2 Dimensions (W x D x H) 38 2 X 3 6 X 21,8 inches 41 7 X 3.7 X 24.7 inches 49 2 X 3 7 X 28 9 inches 54 0 X 3 7 X 31 7 inches (927.6 X 93.3 X 555.5 (mm)) 1059.8 X 94.3 X 629.4 (mm)) (1250.6 X 94.3 X 735.7 (mm)) 374.1 X 94.3 X 807.0 (mm)) 41.7 X 8.9 X 26.7 inches 49.2 X 8.9 X 31.0 inches 54.0 X 12.9 X 33.8 inches With stand 38.2 X 8.9 X 23.8 inches 374.1 X 329.8 X 859.0 (mm 927.6 X 227.6 X 606.5 (mm (1059.8 X 227.6 X 680.3 (mm) (1250.6 X 227.6 X 789.2 (mm) Weiaht Without Stand 20.2 lbs (9.2 kg) 26.4 lbs (12.0 kg) 45.6 lbs (20.7 kg) 54.6 lbs (24.8 kg) 24.6 lbs (11.2 kg) 30.8 lbs (14.0 kg) 51.3 lbs (23.3 kg) 60.4 lbs (27.4 kg) With Stand Design and specifications are subject to change without prior notice

S This device is a Class B digital apparatus.

🗞 For information about power supply, and more about power consumption, refer to the label attached to the product.

Typical power consumption is measured according to Energy Star Program requirements for Televisions. Solution Section Section Section 2018 Sectio

website: www.samsung.com/recyclingdirect or call, (877) 278-0799.

■ JACK PANEL DETAIL / REAR VIEW

|--|

						(Unit: inches)
Model name	1	2	3	4	5	6
UN40EH6000 / UN40EH6050	9.6	5.8	5.8	24.1	7.8	7.8
UN46EH6000 / UN46EH6050	11.6	5.2	7.3	29.8	15.7	15.7
UN55EH6000 / UN55EH6050	15.5	6.1	7.6	36.4	15.7	15.7
UN60EH6000 / UN60EH6050	16.7	8.6	8.8	38.5	15.7	15.7

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors. © 2012 Samsung Electronics America, Inc

personal injury due to electric shock.

To prevent the TV from falling

- We strongly recommend you drive the screws into a stud.
- of the TV. 3. Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable

tightly to the brackets.

- Connect the string or cable so that the brackets on the wal
- Solution Section S

SRS TheaterSound[™] provides the most immersive

speakers, while maintaining steady volume and delivering

surround sound experience from the TV's built-in